INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/014046

A. CLASSIFI Int.Cl	CATION OF SUBJECT MATTER 7 G11B20/12, G11B7/004, G11B7/	007, G11B20/10, G11B27/	00
According to In	ternational Patent Classification (IPC) or to both nation	al classification and IPC	
B. FIELDS SI			
Minimum docu Int.Cl	mentation searched (classification system followed by cl G11B20/12, G11B7/004, G11B7/	lassification symbols) 007, G11B20/10, G11B27/	00
Jitsuyo Kokai J	itsuyo Shinan Koho 1971-2004 Ji	oroku Jitsuyo Shinan Koho itsuyo Shinan Toroku Koho	1994-2004 1996-2004
Electronic data	base consulted during the international search (name of	data base and, where practicable, search te	ins useu)
C. DOCUME	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	· ·	Relevant to claim No.
Y A	JP 09-198778 A (International Corp.), 31 July, 1997 (31.07.97), Par. Nos. [0012] to [0018]; I & US 5940854 A		1-7,9-24 8
Y A	JP 06-231531 A (Ricoh Co., L 19 August, 1994 (19.08.94), Par. No. [0023]; Fig. 4 (Family: none)	itd.),	1-7,9-24 8
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 29 November, 2004 (29.11.04)		Date of mailing of the international search report 14 December, 2004 (14.12.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer Telephone No.	
Facsi mile No. Telephone No. T			

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PCT/JP2004/014046

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 06-302122 A (Ricoh Co., Ltd.), 28 October, 1994 (28.10.94), Par. Nos. [0011], [0012], [0068] to [0070]; Figs. 4, 7 (Family: none)	18-20
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	(continuation of second sheet) (January 2004)	